

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number:	12-306
-----------------------------------	--------

PROJECT INFORMATION

Project Title: Powerline Wildlife Water Catchment Redevelopment

Region and Game Management Unit: Region 3/ Game Management Unit 15A

Local Habitat Partnership Committee (LHPC):

- Kingman no longer has a local HPC

Was the project presented to the LHPC?

YES[] NO[X]

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[] NO[X] → **HPC Project #:** 06-301

Project Type: Redevelopment of Wildlife Water Catchment

Brief Project Summary: Installation of two new buried 18' X 3' fiberglass tanks with walk-in trough(s) and buried pipelines for most of the distance to the new tanks. Removal of the existing catchments, replacement of tank covers, fence replacement (with three-rail, black-pipe fence), and soil re-contouring as needed. Catchment aprons and fencing would be camouflaged to blend into the surrounding landscape. All renovations would occur within the existing fenced areas surrounding the catchments.

Big Game Wildlife Species to Benefit: Mule Deer, Pronghorn Antelope, Mountain Lion

Implementation Schedule (Month/Day/Year):

Project Start Date: November 2013

Project End Date: April 2014

Environmental Compliance:

NEPA Completed: YES[X] No[] N/A[]

Projected Completion Date: EA. AZ-310-2005-0064
9/11/06 FONSI

State Historic Preservation Office - Archaeological Clearance:

YES[X] Powerline #920 (AZ-310-06-15)

No[] N/A[]

Projected Completion Date: Completed 9/05/06 BLM

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: EA No. AZ-310-2005-064 BLM

Projected Completion Date: September 11, 2006

PROJECT FUNDING

Special Big Game License Tag Funds Requested:

\$ 26,284

Cost Share or Matching Funds:

\$ 10,000 Funds committed from BLM

Total Project Costs:

\$ 36,284

PARTICIPANT INFORMATION

Applicant (please print):
Brandon Carley AZGFD

Address: 5325 N. Stockton Hill Road
Kingman, AZ 86409

E-mail: bcarley@azgfd.gov

Telephone: 623-252-8700

Date: August 16, 2012

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with:

AZGFD- Brandon Carley, Deanna Kephart, Trevor Buhr

BLM- Rebecca Peck, Ammon Wilhelm

NEED STATEMENT – PROBLEM ANALYSIS:

Powerline catchment was originally constructed in 1971. Routine inspections have revealed that because of age-related deterioration, apron damage and an outdated design the existing catchment functions poorly and lacks adequate storage capacity. This catchment is unreliable and beyond simple repair. The small capacity and outdated design require frequent monitoring and expensive water hauling trips to ensure sufficient water remains available for wildlife in the area. The Department proposes to redevelop this wildlife water to create a permanent year-round water source for a varied number of wildlife species. Traditionally, big game species have struggled in this habitat, often moving out of the area to habitat providing adequate water. The creation of a year round water source increases the potential to improve pronghorn population numbers and fawn survival rates within the Hualapai Valley, and improve mule deer populations for the area.



Powerline water storage tank and collection apron July 09, 2012.



Drinking trough for Powerline wildlife water catchment July 09, 2012.

PROJECT OBJECTIVES:

The Department proposes to improve the existing water catchment to maintain the availability of water for wildlife at this location. The purpose of this project is to provide a dependable year-round water source for wildlife and reduce the number of annual water hauling and maintenance trips to the catchment. It is also the Department's objective to reduce the effects of drought and thermal stress on game species and other wildlife by constructing, redeveloping and maintaining wildlife water developments.

PROJECT DESCRIPTION AND STRATEGIES:

- 1) Possible minor road repairs would be necessary to transport materials and equipment to project site. The backhoe would be used within the existing road bed to smooth out eroded areas of the road that would make transporting equipment difficult.
- 2) Excavate a hole approximately 5' deep X 20' wide X 40' long to install two 18' diameter (5700 gallon) fiberglass ring tanks.
- 3) Dig a 3' to 5' deep X 20' to 60' long trench to place a 3" Sch. 80 PVC pipeline between the tanks and trough.
- 4) Dig a 3' deep X 6' wide hole to accommodate new fiberglass walk in trough. The trough would have mortar and concrete steps, and an escape ramp (installed after setting) to accommodate all wildlife.
- 5) Install a 24' wide X 96' long metal frame and R-panel apron over the tanks and along the ground where the apron will be placed.
- 6) Install a 150' X 150' wildlife friendly pipe rail perimeter fence to exclude livestock.

PROJECT LOCATION:

Powerline catchment #920- Township 26 North, Range 15 West, Section 2

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

Powerline catchment is located on BLM land.

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

YES[] NO[]

HABITAT DESCRIPTION:

Powerline #920- over-story vegetation includes Utah juniper and single-leaf pinyon. A variety of small shrubs and grasses comprise the understory and include: mountain big sage brush, Fremont barberry, bottlebrush squirreltail, blue grama and western wheatgrass. This catchment is located on Colorado Plateau mixed grass plains and Grand Canyon Desert Shrub habitats respectively. This site is immediately adjacent to the pinyon-juniper woodland. The dominant aspect of the Grand Canyon desert shrub range site is a desert shrub-grass mix. This range site is dominated by flattop buckwheat, Nevada Mormon tea and range ratany. Perennial grasses like desert needlegrass, black grama and bush muhly are abundant. This site also has some areas of locally abundant blackbrush. The dominant aspect of the Colorado Plateau mixed grass plains range site is a shrub-grassland. The major shrubs are blackbrush and Utah agave. Dominant grasses are sideoats grama and slim tridens. Forbs are few. Elevation at the Powerline #920 water catchment is 4270 feet.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

- 1) Two 3' deep X 18' diameter fiberglass ring tanks- \$20,020.00
- 2) One 3' deep standard walk-in trough- \$3,294.00
- 3) One 24' X 96' metal frame and R-panel apron- \$7,580
- 4) One pipe-rail fence package (150' X 150')- \$3,390
- 5) Misc. Plumbing, Concrete and steel tubing-\$2,000

Total Cost for Wildlife Catchment = \$36,284

Cost Share or Matching Funds

Bureau of Land Management (BLM) Kingman Field Office will contribute \$10,000 toward the redevelopment of Powerline Wildlife Water Catchment #920.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Development Branch, AGFD Region 3, BLM Kingman Office

PROJECT MONITORING PLAN:

Periodic checks will be made by the local Wildlife Manager to ensure that the catchments are functional and holding water properly.

PROJECT MAINTENANCE:

The AGFD development branch will do any maintenance or repairs that need to be completed on the catchment.

PROJECT COMPLETION REPORT TO BE FILED BY:

Dee Kephart, Habitat Specialist, Region III

WATER DEVELOPMENT PROJECTS (*see attached worksheet*):

Attached Worksheet

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (*see attached worksheet*):

Non-Applicable

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Powerline Catchment Redevelopment

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”**
Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joseph Currie- AZGFD 2006
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
☐2-4 ☐4-6 ☐6-8 ☒8-10 ☐10-12 ☐12-14 ☐14-16 ☐ >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
YES ☐ (please complete #5 below) NO ☒ (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project: N/A**
Name of water source:
Type of water source (catchment, spring, dirt tank):
Ownership of water source:
Distance in miles from project:
- 6) **Is the target wildlife species a result of transplant efforts?** YES ☐ NO ☒
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
There is no special land management status for the catchment.
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): ☐2x4 vehicles ☒4x4 only ☐foot only**
**If foot access only: Distance in miles: _____ Approximate hiking time: _____

-- Does access to this site require crossing private or tribal lands? YES ☐ NO ☒

-- Please describe any restrictions to public access:
No restrictions to access, property is BLM.

9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.

- 1) Two 3' deep X 18' diameter fiberglass ring tanks
- 2) One 3' deep standard walk-in trough
- 3) One 24' X 96' metal frame and R-panel apron
- 4) One Pipe-rail fence package (150' X 150')

10) Was a site visit completed? Yes[X] No[]

Joe Currie, AZGFD, 4/27/2005

Craig J. Johnson, BLM, 2006

Rebecca Peck, BLM, 2006, 2012

Ammon Wilhelm, BLM, 2008, 2012

Erin Butler, AZGFD, 2006

Bob Posey, AZGFD, 2006

Trevor Buhr, AZGFD, 2012

Brandon Carley, AZGFD, 2012



